

# 5813 TITAN® II Motors

## WPI and WPII Vertical Motors



**Horsepower:** 250 – 1750 HP

**Speed Range:** 400 – 1800 RPM

**Rated Voltages:** 460 through 6900 Volts, 3 Phase,  
50 or 60 Hz

**Insulation:** VPI

**Enclosure:** WPI or WPII



### Product Overview and Features

The 5813 Frame Vertical TITAN® II motor is custom built, based on customer specifications and requirements. It includes WPI and WPII (weather protected) enclosures, and is available in speed ranges from 400 to 1800 RPM. 5813 frame verticals can be manufactured with either a hollow shaft or solid shaft in both low and medium voltage. Oil-lubricated bearings are standard on high and extra-high thrust capacity designs. Normal thrust motors feature grease lubricated bearings. The 5813 vertical TITAN II can be built with or without the BALL-O-MATIC® non-reverse ratchet and can be rated either standard or premium efficiency.

The U.S. MOTORS® brand 5813 Frame Vertical TITAN II motor is manufactured using a cast iron rather than a fabricated frame allowing the winding and frame assembly to be produced in parallel rather than in series. This feature reduces production time and means faster delivery to the customer. Additionally, the 5813 Frame Vertical TITAN II incorporates the latest, improved rotor fabrication process for extra reliability.

U.S. MOTORS brand vertical motors have been a standard in the pumping industry since 1922. These motors are recognized for their longevity, reliability and ease of use for virtually any centrifugal pump application in every major stage of water treatment and processing.

### Product Options:

- Solid Shaft or HOLLOSHAFT®
- Inverter duty with insulated bearings and shaft grounding provisions
- Bearing and winding temperature detectors
- BALL-O-MATIC® non-reverse ratchet
- Winding space heater
- Thrust bearing cooling coils
- Aluminum or copper bar rotor
- Vibration switch options



5813 Frame TITAN® II

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**Nidec**  
NIDEC MOTOR CORPORATION

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# 5812 TITAN® II Motors

## TEFC Vertical Motors



**Horsepower:** 200 – 1250 HP

**Speed Range:** 400 – 1800 RPM

**Rated Voltages:** 460 through 6900 Volts, 3 Phase,  
50 or 60 Hz

**Insulation:** VPI

**Enclosure:** Totally Enclosed Fan Cooled (TEFC)



### Product Overview and Features

The 5812 Frame Vertical TITAN® II motor is custom built, based on customer specifications and requirements for applications in the mining and oil and gas industries. It includes a TEFC enclosure, and is available in speed ranges from 400 to 1800 RPM. 5812 frame verticals can be manufactured with either a hollow shaft or solid shaft in both low and medium voltage. Oil-lubricated bearings are standard on high and extra-high thrust capacity designs. Normal thrust motors feature grease lubricated bearings. The 5812 vertical TITAN II can be built with or without the BALL-O-MATIC® non-reverse ratchet and can be rated either standard or premium efficiency.

The U.S. MOTORS® brand 5812 Frame Vertical TITAN II motor is designed and built to high standards utilizing materials and manufacturing processes that ensure reliability and long life. The design incorporates our latest, improved rotor fabrication process for extra reliability. U.S. brand vertical motors can be manufactured to meet API 610 standards for applications such as booster, transfer, pipeline, chemical process and in refinery water treatment facilities.

### Product Options:

- Solid Shaft or HOLLOSHAFT®
- Inverter Duty with insulated bearings and shaft grounding provisions
- Bearing and winding temperature detectors
- BALL-O-MATIC® non-reverse ratchet
- Winding space heater
- Thrust bearing cooling coils
- Aluminum or copper bar rotor
- Vibration switch options



5812 Frame TITAN® II

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